

# Professorship of Chemistry

IN THE

UNIVERSITY OF ABERDEEN.

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## TESTIMONIALS

IN FAVOUR OF

JAMES S. BRAZIER, F.C.S.

*Fordyce Lecturer,*

ACTING SUBSTITUTE FOR THE LATE PROFESSOR  
OF CHEMISTRY,

IN THE UNIVERSITY OF ABERDEEN;

AND

LECTURER ON CHEMISTRY

IN THE

GOVERNMENT LOCAL SCHOOL OF SCIENCE.



*with Compliments.*

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TO THE  
LORD RECTOR, THE PRINCIPAL, AND OTHER  
MEMBERS OF THE UNIVERSITY COURT.

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MY LORD RECTOR AND GENTLEMEN,

*I beg to offer myself as a Candidate for the Chair of Chemistry in the University of Aberdeen, now vacant by the death of Dr. Fyfe, and to submit for your consideration the accompanying Testimonials of my qualifications for the office.*

*In doing so, I may perhaps be permitted to call your attention to the subjoined Letters from the Secretary of the University, and from Dr. Fyfe ; and also to the Testimonial from Dr. Clark, certifying that in this University and in that of Marischal College I have acted continuously for a period of nine years as the Substitute of the Professors of Chemistry, and also, as to the manner in which I have acquitted myself in that capacity.*

*I may perhaps be permitted to state, further, that, originally educated for the ministry in the Church of England, of which I am a member, my early training was carried on with a view thereto, and comprised instruction in the first instance at a first-class English School, and afterwards in King William's College in the Isle of Man, embracing all the ordinary branches of a sound general education, including Classics, Mathematics, and Natural Philosophy ; while I was only diverted from entering the University of Cambridge by eventually making choice of Chemistry instead of the Ministry as my profession.*

*I have the honour to be,*

MY LORD RECTOR AND GENTLEMEN,

*Your very obedient Servant,*

JAMES S. BRAZIER.

*Aberdeen, January, 1862.*





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*Letter from Professor THOMSON, as Secretary to the University of Aberdeen.*

I HEREBY certify, in name and by appointment of the Senatus Academicus, that Mr. JAMES SMITH BRAZIER has conducted the Classes of Chemistry in Marischal College and University previous to its Union with the University and King's College, and also, since that event, in the University, for a period of nine years altogether, in a highly satisfactory manner.

At the University of Aberdeen, this 18th day of January, 1862.

DAVID THOMSON, Secretary.

*Letter from Dr. FYFE, late Professor of Chemistry in the University of Aberdeen.*

MY DEAR SIR,—In reply to yours regarding the Chair of Chemistry in the University of Aberdeen, I have to state, that, should a vacancy occur, I have resolved to refrain from giving Testimonials to any; at the same time, I feel that, having requested you to act as my Deputy during the Session 1860-1861, I am now called upon to state that you have hitherto discharged the duties that have devolved upon you to my entire satisfaction, and, so far as I have heard, to the satisfaction of the pupils under your charge.

ANDREW FYFE, M.D.,

Professor of Chemistry, University of Aberdeen.

February 7, 1861.

To JAS. S. BRAZIER, Esq.

# TITLES OF CHEMICAL RESEARCHES

BY JAMES S. BRAZIER, F.C.S., &c. &c.

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1. *Analyses of the Mineral Constituents of the Flax Plants, and of Soils on which the Plants had been grown.*

(By Mayer and Brazier) Chemical Society. Qu. J. II. 78.

2. *An Analysis of Plate Glass.*

Chemical Society. Qu. J. II. 208.

3. *Contributions towards the History of Caproic and Ænanthylic Acids.*

(By Brazier and Gossleth) Chemical Society. Qu. J. III. 210.

4. *On Irish-bog Butter.*

Read before the British Association, 1852.

5. *Notice of Dugong Oil.*

Read before the British Association, 1859.

6. *On the Quantitative Estimation of the Soluble Combustible Contents of a Water.*

Read before the British Association, 1859.

7. *On a Method of Obtaining Pure Distilled Water.*

Read before the British Association, 1859.

*Author of "ANALYTICAL TABLES," arranged expressly for the use of the Students attending the Class of Practical Chemistry in the University of Aberdeen.*



# TESTIMONIALS.

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## I.

HONORARY TESTIMONIAL *of PROFICIENCY awarded by the COUNCIL  
of the ROYAL COLLEGE of CHEMISTRY.*

It is hereby certified that Mr. JAMES S. BRAZIER has conducted chemical researches under the direction and to the satisfaction of the Professor in the Laboratories of the ROYAL COLLEGE of CHEMISTRY, and in consideration of the talent and industry he has displayed during his course of practical instruction, the Council have awarded him this HONORARY TESTIMONIAL.

ALBERT, President.  
A. W. HOFMANN, Professor.

Given at the College in London,  
this 22d day of November, 1851.

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## II.

TESTIMONIAL (*acknowledgement of services*) *from the COUNCIL of  
the ROYAL COLLEGE of CHEMISTRY.*

THE COUNCIL of the ROYAL COLLEGE of CHEMISTRY give this Testimonial to Mr. JAMES S. BRAZIER, for the services which he has rendered to the College in the fulfilment of his duties as Junior and Senior Assistant during the last two years.

The Council desire to mark with high approbation the

contributions of Mr. BRAZIER to the *Quarterly Journal of the Chemical Society*, whereby the scientific credit of the College has been increased, and the talent, skill, and diligence of the author has been made evident, whilst the firmest surety has been given that, in his future career, whether as an investigator, or as a teacher of Chemistry, he will reflect high honour upon the Royal College of Chemistry.

JAMES CLARK, M.C.

November 18, 1851.

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### III.

From AUGUSTUS W. HOFMANN, LL.D., Ph. D., F.R.S., &c. &c.  
*Professor at the Royal College of Chemistry, London.*

ROYAL COLLEGE OF CHEMISTRY, Nov. 1851.

It is with great pleasure that I bear testimony to the scientific acquirements of Mr. JAMES S. BRAZIER.

Mr. BRAZIER entered the Laboratory of the Royal College of Chemistry in 1847, and soon attracted my special attention, by the perseverance and earnestness with which he prosecuted his studies. His untiring energy, conjoined with sound intelligence, and remarkable skill and dexterity in the performance of experiments, rapidly carried him through the regular course of qualitative and quantitative analysis adopted in the Laboratory of this Institution; and before he had completed the second year of his studies, he published, jointly with Mr. Mayer, two papers, the one, "Analysis of the Mineral Constituents of the Flax Plant, and of the Soils on which the Plants had been Grown;" the other, "An Analysis of Plate Glass;" both of which were read before, and printed in the *Quarterly Journal of the Chemical Society* of London. In these two communications, Mr. BRAZIER shows that he is perfectly master of all the operations of mineral analysis. At the termination of two years, a vacancy having occurred in the College, he became Junior Assistant in the Laboratory, where, under my direction, he superintended the practical exercises of the students. Dur-

ing this time, although much occupied with his duties, he succeeded in performing a series of experiments on two organic acids, which he subsequently published, jointly with Mr. Gossleth, under the title, "Contributions towards the History of Caproic and CEnanthylic Acids," which are likewise printed in the *Quarterly Journal of the Chemical Society*.

These researches, which are chiefly devoted to the investigation of the deportment of the two mentioned acids under the influence of the galvanic current, give ample evidence of Mr. BRAZIER's thorough acquaintance with the methods of organic inquiry. Very soon afterwards, Mr. BRAZIER became Senior Assistant in the College, and from that time I was happy enough to secure his co-operation in the prosecution of my own researches, and I had an opportunity of acknowledging the valuable assistance which he rendered me, publicly in the last paper which I communicated to the ROYAL SOCIETY.\*

Mr. BRAZIER, who intends devoting himself to the teaching of Chemistry, has just accepted an offer made to him by Professor Andrews, to become Chemical Assistant in the Laboratory of Queen's College at Belfast, a position which opens to him the prospects of an honourable and useful career. Although very sorry to lose the co-operation of Mr. BRAZIER, my best wishes accompany him in his new position. I am sure that he will be an ornament to that or to any Institution he may become associated with, either in the capacity of a Teacher or as an Analyst.

In conclusion, I may state that a more amiable, modest, and trustworthy man cannot be found than Mr. BRAZIER, whose experimental talent, and whose kind and intelligent

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\* *Philosophical Transactions of the Royal Society*, 1851, page 390.—"The Analysis of the tetramyl-ammonium salt concludes the experimental part of this paper; and here I cannot but make mention publicly of the valuable assistance which Mr. JAMES S. BRAZIER, Senior Assistant in the Royal College of Chemistry, has given me during the prosecution of these inquiries. I thankfully acknowledge the aid of this able young chemist, whose experimental skill is equalled by his love of science."



mode of communicating knowledge, will long be remembered by those who enjoyed the benefit of his assistance and instruction.

A. W. HOFMANN, LL.D., F.R.S.

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IV.

*Supplementary Testimonial from* AUGUSTUS W. HOFMANN,  
LL.D., Ph. D., F.R.S., &c. &c.

ROYAL COLLEGE OF CHEMISTRY, Oct. 5, 1860.

MY DEAR MR. BRAZIER,—I have heard with much pleasure that the amalgamation of the two Colleges in Aberdeen opens a prospect of your obtaining a more independent position, which, whilst it will furnish you an opportunity of applying on a more extended scale the experience in teaching which you have acquired, will enable you at the same time to resume the scientific researches which you had commenced with so much success. I shall be delighted to hear that your candidature has been successful.

I remain,

My Dear Mr. Brazier,

Yours very sincerely,

A. W. HOFMANN, LL.D., F.R.S.

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V.

*From* THOMAS ANDREWS, M.D., F.R.S., &c. *Vice-President and*  
*Professor of Chemistry, Queen's College, Belfast.*

MR. BRAZIER has been personally known to me since the year 1851. His published papers and the high testimony borne by Dr. Hofmann to the valuable assistance Mr. Brazier had rendered him in his celebrated researches on "The Substitution Ammonias," led me to embrace gladly an opportunity which at that time presented itself of securing his services as Chemical Assistant. He remained here for part of one session, and during his short stay rendered the most

valuable assistance to the students and to myself. He proved himself not only a skilful analyst and successful experimenter but also an excellent teacher of the science. Under his care the students made rapid progress, and regretted as much as myself his departure. On one occasion, he assisted me very efficiently at a public examination; and on another, he delivered a very effective lecture on a difficult part of Organic Chemistry. He displayed great ability on both occasions, and proved himself to be fully qualified to perform the duties of a Professor of Chemistry.

Mr. BRAZIER left this College in order to assist Dr. Clark of Aberdeen; of his success there it is not for me to speak, but I believe he has fully sustained the high character he established here.

Mr. BRAZIER has published several papers on the analysis of different substances; and, in conjunction with Mr. Gossleth, he made a valuable communication to the Chemical Society on the Caproic and CEnanthylic Acids, which is still referred to in all recent works on Organic Chemistry.

In conclusion, I beg to bear testimony to Mr. BRAZIER's personal worth and conciliating character, and to express my opinion that he is, in all respects, highly qualified to fill the Chair of Chemistry in the University of Aberdeen.

THOMAS ANDREWS, M.D., F.R.S.

Queen's College, Belfast, December 5, 1860.

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## VI.

*From the Reverend POOLEY SHULDHAM HENRY, D.D., President of Queen's College, Belfast.*

QUEEN'S COLLEGE, May 19, 1854.

I CERTIFY that Mr. BRAZIER now of Aberdeen, acted for some time in this College as Chemical Assistant to Dr. Andrews, the Vice-President; that, besides being very gentlemanlike in his conduct and manner, he appeared to be thoroughly devoted to Chemical Science and his duties in the



Laboratory ; and that I have always heard him spoken of by Dr. Andrews and the other Professors as a man of ability and high special qualifications.

POOLEY SHULDHAM HENRY, D.D.

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## VII.

*From THOMAS CLARK, M.D., late Professor of Chemistry in  
Marischal College and University, Aberdeen.*

MR. JAMES SMITH BRAZIER has acted as my Chemical Assistant, and also as my Substitute in conducting the Chemistry Classes in Marischal College and University during the last eight years, till now, when my connection with that University ceases under the arrangements for the union of the two Universities of Aberdeen. It was ill health—the result of an overworked brain—that gave occasion to my employing such an assistant.

During the first of those eight years, Mr. BRAZIER conducted the classes under my immediate inspection. I had paid very great attention to the easiest method of developing the doctrines of Chemistry, in respect of order, to the most effectual methods of conducting class-examinations on the subjects of lecture, and to making efficient arrangements for giving instruction in the Art of Chemical Testing to Students in Classes. When that year was over I was thoroughly satisfied that he had been initiated in all these points, and left Mr. BRAZIER to what was substantially the entire responsibility of conducting the class ; and so satisfactorily was this done by him, that I felt my own undoubted responsibility to be little more than nominal.

During all the eight years Mr. BRAZIER has given very great satisfaction to his pupils, to the Medical Profession in Aberdeen, and to the Principal and Professors.

Before engaging Mr. BRAZIER I obtained from friends that I had confidence in, assurances not only of his attainments in science, but of his private worth and his prudent and agreeable demeanour. Their assurances the experience of eight years has amply confirmed.

MR. BRAZIER has proved himself to be an agreeable and instructive lecturer in Chemistry ; I have been careful to ascertain by occasional Examinations of his classes, that he is a very successful Examiner of a Class on the subject of his lectures ; he is very successful as a teacher of the Art of Chemical Testing ; and I can confidently affirm that he is in every respect qualified to be a Professor of Chemistry in a University.

THOMAS CLARK, M.D.

September 6, 1860.

### VIII.

*From* Sir JOHN F. W. HERSCHEL, Bart., K.H., D.C.L., F.R.S.,  
&c.

COLLINGWOOD, Dec. 7, 1860.

SIR,—I perfectly well remember the high estimation in which your Chemical attainments and other requisites for the office of Professor of Experimental Philosophy and Chemistry at the Sydney University were held by myself and the other Members of the Committee for the selection of a Professor ; and I have not a doubt that taking into further consideration your experience acquired during your long Assistantship to the Professor of Chemistry at Aberdeen, and from what he says of your ability and services in that capacity, that you would prove a very worthy successor to him.

I remain,

SIR,

Your faithful Servant,

JOHN F. W. HERSCHEL.

### IX.

*From* G. DICKIE, A.M., M.D., *Regius Professor of Botany in the University of Aberdeen, lately Professor of Natural History, Queen's College, Belfast.*

ABERDEEN, January 10, 1861.

MR. BRAZIER has been known to me since 1851, when he became Assistant to Dr. Andrews in the Laboratory of the Queen's College, Belfast, where I had daily opportunity of



knowing the value of his services. About that time he became a Candidate for the Chair of Experimental Philosophy and Chemistry in the University of Sydney. I have authority for stating that Mr. BRAZIER stood second in the list of Candidates—Dr. Smith, who received the appointment, having had longer experience in teaching.

I recommended Mr. BRAZIER to apply for the office then vacated by Dr. Smith—namely, that of Assistant to Professor Clark, in Marischal College; and I had no hesitation in writing to Dr. Clark respecting Mr. BRAZIER's qualifications.

I cannot pretend to testify respecting Mr. BRAZIER's acquirements as a Chemist, but I can state that my anticipations respecting his efficiency as a teacher have been fully confirmed by his success in Aberdeen. The numbers of students in the practical department of Chemistry have increased so much under Mr. BRAZIER that instead of one practical class, three have been taught daily during the Summer Session.

As evidence of his zeal for promoting the efficiency of students in these classes, I need only allude to the valuable Analytical Tables which he has prepared and arranged expressly for their use.

In addition to his duties in the University, Mr. BRAZIER has for some years held the office of FORDYCE LECTURER ON AGRICULTURAL CHEMISTRY, and he has also conducted classes attended by members of the Mechanics' Institution.

I have been present during Lecture in the Class of Chemistry, and can thus further testify that Mr. BRAZIER's powers as a teacher are of the highest order.

I believe that as a man of science, an exemplary member of society, and a teacher, his appointment would be of high importance to the University.

G. DICKIE, A.M., M.D.

## X.

*From* THOMAS GRAHAM, D.C.L., F.R.S., F.R.S.E., &c. &c.  
*Master of the Mint, late Professor of Chemistry in the University College, London.*

UNIVERSITY COLLEGE, November 29, 1851.

MR. J. S. BRAZIER is the author, in conjunction with Mr. Gossleth, of an elaborate Memoir, entitled "Contribu-

tions towards the History of Caproic and CEnanthylic Acids," published by the Chemical Society. This paper gives evidence of very considerable power on the part of its authors, both in the practice of the nicest experimental investigations of Organic Chemistry, and also in the discussion of the most intricate points of Chemical Theory. I have had myself other opportunities of observing Mr. BRAZIER's skill and ability as an Analyst, and the clearness and precision of his explanations of scientific subjects. He appears to me to unite the requisites of a Chemical Investigator with those of a sound and attractive Teacher of the Science.

THOMAS GRAHAM, F.R.S.

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## XI.

*From FRITZ AUGUST ABEL, F.R.S., F.C.S., &c. Director of the Chemical Establishment of the War Department.*

ROYAL ARSENAL, WOOLWICH.

MR. JAMES S. BRAZIER is not only well known to me as an accomplished Chemist and a zealous and successful Investigator, from the interesting contributions to Chemical Science which he has published at different times—I have also the pleasure of numbering him among my colleagues of former years, at the Royal College of Chemistry, and am therefore enabled to testify, from personal observation, to his skill as an experimenter and analyst, and to the very considerable talents exhibited by him as a Teacher, even as far back as 1850, since which period I have frequently heard of the success which has attended his labours as a Lecturer, and an Instructor in practical Chemistry.

FRITZ. A. ABEL, F.R.S.

December 8, 1860.

## XII.

*From* WM. ALLEN MILLER, M.D., F.R.S., &c. &c. *Professor of Chemistry in King's College, London.*

KING'S COLLEGE, Dec. 14, 1860.

MY DEAR SIR,—I have much pleasure in bearing my testimony to the ability and success with which you have pursued the study of Chemistry. Of this, indeed, your published papers in the Transactions of the Chemical Society are the best proof. I may, however, add my personal acquaintance with your skill and accuracy in Analytical investigations, from the assistance which you afforded to the Chemical Commission on the Metropolitan water supply in some of the numerous analyses of water which were required on that occasion.

Of your success in the Teaching of Chemistry others will speak from experience.

Believe me,

DEAR SIR,

Truly yours,

WILLIAM ALLEN MILLER, M.D., F.R.S.

## XIII.

*From* CHARLES L. BLOXAM, F.C.S., *Professor of Practical Chemistry in King's College, London.*

KING'S COLLEGE, LONDON, 18th Dec., 1860.

DEAR MR. BRAZIER,—Ever since we were fellow-labourers in the Royal College of Chemistry (I think from 1846 to 1851) you have occupied a prominent position in my memory as an accomplished Chemist and a successful Instructor.

Your published researches in Organic and Inorganic Chemistry sufficiently attest your skill in analysis and your



ability to conduct investigations designed to advance our science.

Respecting your career at Aberdeen I have only hear-say evidence ; but when I add, in my own mind, the result of your eight years' practice in that University, to the great power of imparting knowledge which you already possessed when you quitted the College of Chemistry, I am led to the conclusion, which is confirmed by everything I have since heard of you, that very few candidates for Chemical Chairs will be found so well qualified, both in the art of teaching and in the science of investigating the truths of Chemistry.

With best wishes for your advancement and happiness,  
I remain,

DEAR SIR,  
Very faithfully yours,

CHARLES L. BLOXAM.

#### XIV.

*From* THOMAS ANDERSON, M.D., F.R.S.E., *Professor of Chemistry in the University of Glasgow.*

UNIVERSITY OF GLASGOW, 7th January, 1861.

I HAVE much pleasure in expressing my high opinion of Mr. BRAZIER as a Chemist. I am well acquainted with his published papers, which display an intimate knowledge of various departments of Chemical Science, and from personal communication with him, I know him to be well versed in his Science, and to be an accomplished Analyst. Of Mr. BRAZIER'S powers as a Lecturer I am unable to speak, but this is the less necessary as his long connection with the University of Aberdeen, as Fordyce Lecturer on Agricultural Chemistry, and as Assistant to Dr. Clark, must have made his qualifications in this respect well known in Aberdeen. I may state, however, that his contributions to Chemistry are written in a clear and precise style, and I have no doubt that if elected he will fulfil with zeal and ability the duties of the Chair.

THOMAS ANDERSON, M.D., F.R.S.E.

## XV.

*From* AUGUSTUS VOELCKER, Ph. D., F.C.S., *Professor of Chemistry in the Royal Agricultural College, Cirencester.*

CIRENCESTER, December 18, 1860.

DEAR SIR,—Before I had the pleasure of making your acquaintance two years ago, your name was familiar to me as the author of several able contributions to Organic and Inorganic Chemistry.

Not having had an opportunity of judging of your aptitude to teach Chemistry, I must leave it to others to express an opinion of your special qualifications as an Academical teacher of Chemistry ; but I can say conscientiously that I entertain a high opinion of your Analytical skill and consider you a conscientious and accurate Analytical Chemist.

I may add that I have experienced much pleasure in conversing with you on scientific matters, and been favourably impressed with the urbanity of your manners, your kindness of disposition, facility of expression, and love and zeal for that branch of science to which you have devoted your energies.

Believe me,

DEAR SIR,

Yours faithfully,

AUGUSTUS VOELCKER, Ph. D.

## XVI.

*From* HENRY BENICE JONES, M.D., F.R.S., *Vice-President of the Chemical Society.*

31, Brook Street, London.

WHEN MR. JAMES S. BRAZIER was in London, I knew him as one of the most promising pupils of the College of Chemistry. He distinguished himself by his researches, and acquired the esteem of all who knew him.

I have no doubt, if he has the opportunity given him, that he will distinguish himself still more as a teacher of Chemistry and as a discoverer in science.

HENRY BENICE JONES, M.D., F.R.S.

## XVII.

*From E. FRANKLAND, Ph. D., F.R.S., &c. Professor of Chemistry at St. Bartholomew's Hospital, London.*

CHEMICAL THEATRE,  
St. Bartholomew's Hospital, Dec. 14, 1860.

MY DEAR SIR,—In compliance with your request, I have much pleasure in stating my conviction that your attainments in Chemical Science are such as would enable you most efficiently to discharge the duties of a Professor.

My opinion is founded upon the excellent opportunities for acquiring knowledge which I know you to have had as Student and Assistant at the Royal College of Chemistry, and subsequently in the Laboratory of the University at Aberdeen. Your very accurate and interesting researches upon the Electric Decomposition of Caproic and CEnanthylic Acids also show that you are well acquainted with the delicate methods of organic research.

Believe me,

Yours very truly,

E. FRANKLAND, F.R.S.

## XVIII.

*From EDMUND RONALDS, Ph. D., F.C.S., late Professor of Chemistry in Queen's College, Galway.*

QUEEN'S COLLEGE, October 8, 1852.

MR. BRAZIER has long been well known to the Chemical world by the numerous additions which his own researches have made to the science. Amongst these may be mentioned his

“Analysis of Plate Glass.”

“Analysis of the Inorganic Constituents of the Flax Plant.”

“Contributions towards the History of Caproic and CEnanthylic Acids.”

“Analysis of Irish Bog-butter.”

All these papers bear strong internal evidence that Mr.



BRAZIER is intimately acquainted with the resources of modern Chemistry in its various departments, and the paper on the Flax Plant exhibits a rare amount of perseverance in following out the tedious details of Chemico-Agricultural analysis. I have no hesitation in stating that, in my opinion, Mr. BRAZIER is not only fully qualified to fill a Chair of Chemistry, but will do credit to any Institution with which he may be connected.

EDMUND RONALDS, Ph. D.

## XIX.

*From the PROFESSORS of the MEDICAL FACULTY in the UNIVERSITY  
of ABERDEEN.*

UNIVERSITY OF ABERDEEN, January, 1861.

We have great pleasure in hereby expressing our entire satisfaction with the services of Mr. J. S. BRAZIER, since he became Assistant to Dr. Thomas Clark, late Professor of Chemistry here. We allude particularly to his ability in conducting the entire business of the Chemical Classes in Aberdeen, during the last eight years, in proof of which we would especially refer to the increase, during that time, of the number of Practical students, from an average of Fourteen to one of Thirty-five, an increase which has called for the subdivision of the Students into Classes taught at separate hours. We can bear witness to the great success and the growing popularity of Mr. BRAZIER, as a Teacher of the different departments of Chemistry, and to the deep interest which he has invariably taken in the progress of those under his charge ; and further, we would take this opportunity of conveying to him our best thanks for his labours as an Examiner in the Medical School ; and of expressing our belief that he would be found to be a most efficient Professor of Chemistry here or elsewhere ; and that his services would prove to be a valuable acquisition to any Institution with which he might become connected.

J. MACROBIN, M.D.,  
Professor of Medicine.

WILLIAM PIRRIE, F.R.S.E.,  
Professor of Surgery.

ROBT. DYCE, M.D.,  
Professor of Midwifery.

G. DICKIE, M.D.,  
Professor of Botany.

GEO. OGILVIE, M.D.,  
Professor of Institutes of Medicine.

F. OGSTON, M.D.,  
Professor of Med. Logic and Med.  
Jurisprudence.

A. JARDINE LIZARS,  
Professor of Anatomy.

ALEX. HARVEY, M.D.,  
Professor of Materia Medica.



## XX.

## STUDENTS' TESTIMONIAL.

WE, the Undersigned, former and present Students of Chemistry under Mr. BRAZIER, in the Marischal College of Aberdeen, understanding that he intends to come forward, on the resignation of Dr. Fyfe, as a Candidate for the Professorship of that Branch in the University of Aberdeen, beg to testify to our high opinion of him as a Teacher.

Mr. BRAZIER's Testimonials from men of the highest eminence, and the reputation which he has already gained for himself both here and elsewhere, render any recognition of his talents as a Chemist on our part unnecessary. What we desire to do is to acknowledge the benefit which we have derived from the efficient manner in which his Classes have been conducted, and to bear testimony to the unvarying courtesy and kindness which he has always exhibited towards his Students.

Believing that it would be for the advantage of the University—in the affairs of which we all take an interest—we beg to express an earnest hope that Mr. BRAZIER will be the successful candidate for the Chemistry Chair.

S. Wordsworth Poole, M.D., Birmingham.

Walter S. Gervis, M.D., M.R.C.S. Eng., and L.S.A. Lond.

James Wallis, A.M., Minister of St. Mary's, Demerara.

John Forrest, Bart. of Comiston, Midlothian.

Alexander Leith (of Freefield and Glenkindie).

William Walker, M.D., H.M.'s Bengal Army, Agra.

G. G. Milne Miller, L.R.C.S. Edin.

David B. Dalzell, M.D., Warminster, Wilts.

George Smith, M.D., L.R.C.S.E., Park Place, Stockwell Street, Glasgow.

W. Mackenzie Skues, M.B., Staff Asst.-Surgeon, 23d Depôt Battalion.

Frederic Crompton, M.R.C.S.L.

John Cameron, M.B., Assist.-Surgeon, 27th Regiment.

William Chalmers, Assist.-Surgeon, H.M.'s 2d Battalion 17th Regt.

Alex. B. Cheves, M.B., L.R.C.S.E., L.A.S.L.

Thos. Clapperton, Lieut., Royal Marines (Lt. Inf.).

J. Blaikie, M.D., Grantown.

Robert Bain, Surgeon, Nairn.  
 Alex. B. Thomson, M.R.C.S., Rothes.  
 A. Bruce, Attorney-at-Law, Hamilton, Canada West.  
 Fredk. M. Skues, M.B., Assist.-Surgeon, 1st W. I. Regt.,  
     Napau, Bahama.  
 Jas. Hamlin, M.D.  
 William Skeen, Staff Surgeon.  
 Alexander Warrack, A.M., Student in Theology.  
 Matthew Henry Sloane, M.D. (Marischal College).  
 Geo. Bartlet, M.R.C.S. Eng, Graystone, Culsalmond.  
 Jas. Wilson, M.D., L.R.C.S.E., Oldmeldrum.  
 Wm. B. L. Grant, M.D., L.R.C.S.E.  
 J. Tulloch, M.D., Assist.-Surgeon, 10th Regt.  
 C. A. Innes, M.D., S. Assist.-Surgeon.  
 G. M'Gregor, Balmenach, Cromdale.  
 David Paton, M.D., Letham, Forfar.  
 A. M. Humphrey, M.B., and L.R.C.S.E.  
 Jas. Taylor Thom, M.D., Edin., Stonehaven.  
 Alexander Scott, A.M., M.B., L.R.C.S.E.  
 Charles Shaw, L.R.C.S. Ed.  
 George Carr, A.M., M.D., Aberdeen.  
 Jas. Y. Donaldson, M.D., Staff Assist.-Surgeon, Gibraltar.  
 James Marshall, M.D., M.R.C.S.E., Upper Norwood, Surrey.  
 Patrick C. Houston, A.M.  
 Alexander Macdonald, Granite Works, Aberdeen.  
 Alex. Robb, M.B., Maris. Col., &c. Inverkindie.  
 James Leslie, M.B., L.R.C.S.E., New Deer, Aberdeenshire.  
 John Laing, A.M., M.D., &c.  
 Wm. Keith, Lieut., R.E.  
 Robert M'Killiam, M.D.  
 Wm. J. Adams, Surgeon, Banchory Ternan.  
 William Ligertwood, M.D., Staff Assist.-Surgeon.  
 James Scorgie, Engineer, Rustoom Baugh House, near  
     Surat, Bombay.  
 John Polson, M.D., New Deer.  
 Arch. Reith, M.D., Physician to Aberdeen Gen. Dispensary.  
 John Crombie, Jun.  
 James Rust, M.D. and C.M.  
 Robert Falconer, Writer.  
 Alexander Reith, M.D.  
 Robert Stephen, Minister, Renfrew.  
 Robert Martin, M.D., Warrington.  
 George D. Rutherford, Solicitor, 20, King Street, Aberdeen.  
 Robt. Shand Poole, Dentist, St. John Street, Manchester,  
 William Sherriffs, A.M., 40, Huntly Street.  
 John Stewart, Jun., Cotton Lodge, Aberdeen.  
 G. M. Ogg, M.B., A.M., Assist.-Surgeon 44th Regt. M.N.I.



- D. Campbell Taylor, M.D., Assist.-Surgeon 56th Regiment.  
 John C. Campbell, M.D., Assist.-Surg. 4th Light Dragoons.  
 Tom Gray, A.M. (Artist), 1, Raphael Street, Knightsbridge.  
 John W. Cook, M.D., M.R.C.S.E., Alness, Ross-shire.  
 Andrew Munro, Jun. of Bogfield, Ross-shire.  
 William G. Paterson, Invergordon, Ross-shire.  
 R. Lindsay, Assist.-Surgeon 39th Regiment.  
 G. A. Burn, A.M. and M.D., Assist.-Surgeon 2d Cavalry,  
     Hyderabad Contingent.  
 John Greig, M.B., Royal Welch Fusiliers, Malta.  
 Patrick Kilgour, M.B., Assist.-Surg., 79th Highlanders,  
     Mean Meer.  
 James Gerrard, Surgeon, Aboyne.  
 James Greig Leask, Assist.-Surgeon, 94th Regt., Nowshew,  
     Punjaub.  
 Erskine B. Grant, A.M., M.B., and L.R.C.S.E.  
 Geo. J. Stewart, Cotton Lodge, Aberdeen.  
 Bronislas J. Jazdowski, M.B., L.R.C.S.E.  
 William Grantt, M.B., Assist.-Surgeon 31st Regt., Hoo-see-  
     woo.  
 William Ironside, M.D.  
 George A. Grant, L.R.C.S.E., Assist.-Surg. Royal Artillery  
 George Bidie, M.B. (H.M. Madras Army), Civil Surgeon,  
     Guntoor.  
 John Patterson, M.D., &c., Cairo, Egypt.  
 Alex. Mellis, M.B., L.R.C.S.E., Alexandria, Egypt.  
 Geo. E. Will, Staff Assist.-Surgeon, St. Mary's Barracks,  
     Chatham.  
 Andrew Wallace, A.M., M.D., &c. Turriff, Aberdeenshire.  
 Alexander Webster, M.A., Assist.-Min., Kilrenny.  
 George Simon, M.D., M.R.C.S.E., Assist.-Surgeon, 32d L. I.  
 John H. Gamack, A.M., Writer, Record Office.  
 John Shoolbraid, M.D., and M.R.C.S. Eng., Aldershott.  
 F. L. Duguid, Newtown, Sydney.  
 William Gall, M.D.  
 Alex. Gamack, A.M., M.D., Assist.-Surgeon Madras Army,  
     India Civil Medical Charge at Port Blair, Anda-  
     man Islands.  
 A. Vans Best, M.D., Runeegunge, Bengal.  
 J. W. F. Smith, M.D., Broughty Ferry.  
 William Creyk, M.B., Laboratory Assist., Marischal College.  
 John R. M'Lintock, M.B.  
 John R. Dyce, Taku Forts, Peiho.  
 Graham A. Carter, M.D., Odiham.  
 Alex. Cochran, Writer, Aberdeen.  
 F. Cochran, Wimbledon College, Surrey.  
 John Forbes, Student of Law, Lincoln's Inn.

J. F. Lumsden, Student of Law, Edinburgh.  
 Alexander Taylor, House Surgeon, Northern Infirmary,  
 Inverness.  
 Joseph Nicoll, Chemist, 90, Broad Street.  
 G. M. Reid, Chemist, Beaumont Street, Oxford.  
 George Edmond, Clerk, North of Scotland Bank, Aberdeen.  
 John Rae, F.C., Student in Divinity, Green of Udney.  
 H. M. Fraser, Clinical Assistant, Royal Lunatic Asylum,  
 Aberdeen.  
 Daniel Laird, Clerk, North of Scotland Bank.  
 Patrick A. Mitchell, Ythan Lodge, Newburgh.  
 James C. Brown, Clerk (P. & G. Brown).  
 Alfd. Hutchison, 130, Fenchurch Street.  
 George Shepherd, Shethin, Tarves.  
 Alister Stuart Robertson, Kingussie.  
 Alexander Pirie, 20, Market Street.  
 Robert B. Nicolson, Glenbervie House.  
 James B. Manson, Kilblean, Oldmeldrum.  
 Francis Ogston Gill, Blingerry, Wick.  
 William Gray, 122, Leadenhall Street, London.  
 Alexander W. Collie, Oak Bank, Aberdeen.  
 J. Daniel Petrie, Inverden, by Mossat.  
 Alexander Tait, Crichton.  
 James Anderson, 35, Queen Street, Aberdeen.  
 John A. Paul, Peterhead.  
 Joshua P. Willans, Writer, Aberdeen.  
 Charles James Allan, A.M.  
 John Grant Robertson, A.M.  
 James Asher, A.M.  
 J. R. Henderson, A.M.  
 David Dyce Brown, A.M.  
 John C. Macrobain, A.M.  
 James Mackie, A.M.  
 Robert Ogilvie, A.M.  
 David Arthur Leslie, A.M.  
 Angus Fraser, A.M.  
 David Mackie, A.M.  
 William S. S. Bisset, A.M.  
 Thomas D. Gray, A.M.  
 George Maclean, A.M.  
 Robert Walker, A.M.  
 Robt. Wm. Troup, A.M.  
 William Gault, A.M.  
 George Forbes, A.M.  
 John Smith, A.M.  
 Thomas Sinclair, A.M.  
 William R. Duguid, A.M.

Alexander Mitchell.  
Patrick Watt.  
Alexander J. Leslie.  
Geo. C. Robertson.  
James Burr.  
G. Russel Pickthorn.  
James Robertson.  
David Shoolbraid.  
James Wm. Barclay.  
James Maclean.  
David Rennet.  
J. S. Humphrey.  
Alexander Turner.  
James Leslie Henderson.  
James S. Stuart.  
Thomas B. Webster.  
Robert Craig.  
John Wight.  
Lawrence Pitcaithly.  
James Hector.  
C. M. MacQuibban.  
George Dunbar Milne.  
Samuel Willans.  
James Murray.  
Lewis G. Davidson.  
John Ford Anderson.  
J. B. F. Suther.  
Charles H. Burnett.  
William Gordon.  
Hector Shaw.  
A. R. Paterson.  
John Reid.  
Robert Mennie.  
R. Davidson Kemp.  
James A. Lightbourne.  
David A. Kerr.  
John Reid Morrison.  
George Yeats.  
Charles Smart.  
B. F. D'uminy.  
David Gill.  
James Westland, Jun.  
Robert Walker.  
George Walker.  
James F. Henderson.  
Wm. Mortimer.  
John Christie, Jun.



Theunis J. Botha.  
William Stables.  
William Reid.  
Farquson. T. Garden.  
William S. Horn.  
Alexander Dalzell Keith.  
William Paterson.  
Alex. F. A. Fairweather.  
Thomas Milne.  
George J. Fraser.  
George S. D. Knowles.  
Thomas Irvine Rowell.  
John Gray.  
William H. Grant.  
Archibald Maclean.  
Alexander Thomson.  
James C. Brown.  
John Shand.  
A. S. M'Lagan.  
Alex. Collie.  
John R. Hall.  
Thomas S. Connan.  
John Grant.  
William B. Leslie.  
John Cran.  
Charles Alexander.  
Francis J. Padfield.  
George W. Johnstone.  
William Coutts.  
Alexander Silver.  
W. F. Morrison.  
John Brown.  
Edward Gray.  
Arthur W. Blacklock.  
Charles F. Buchan.  
Peter Russel.  
James Hogarth.  
G. G. Anderson.  
A. M. Ogston.  
Alexander B. A. Minty.  
Geo. Huntly Gordon.  
John Eadon.  
John B. M'Leod.  
Thomas Watt.  
Willm. Johnston.  
William M'Kay.  
James E. Fowler.

Alex. Youngson.  
 Alex. Johnston.  
 James Davidson.  
 Alexander Yule.  
 John Stott.  
 John Barclay.  
 John Murray (Major).  
 George M'Donald.  
 James Ogston.  
 Robert More.  
 John Fraser.  
 James Ross.  
 John Simpson.  
 John S. M'Robbie.  
 Benjamin Knowles.  
 G. Thomson.  
 John C. Souter.  
 James T. Gage.  
 Robert Keith.  
 Owen Evans.  
 James Ledingham.  
 William M'Lean.  
 W. H. Stewart.  
 John F. Cottingham.  
 Alexander Kerr.  
 Henry Franklin Wright.  
 John Davidson.  
 William Yuill.  
 W. G. Farquhar.  
 W. Wallace.  
 Charles Johnstone.  
 John Carnegie.  
 Alexr. Campbell.  
 Alexr. Laing.  
 John Murray (Minor).  
 Patrick G. Gill.  
 Charles John Thomson.  
 A. Cameron.  
 John S. Fowler.  
 A. G. Anderson.  
 Thomas Milne.

February 2, 1861.

## XXI.

*From the Reverend DANIEL DEWAR, D.D., late Principal of  
Marischal College and University.*

MARISCHAL COLLEGE, ABERDEEN,  
June 1, 1854.

I HAVE great pleasure in bearing testimony to the high qualifications of Mr. JAMES S. BRAZIER. I express the sentiments of my colleagues in this University when I say that the talents and acquirements of Mr. BRAZIER are, in our opinion, of an high order.

In conducting the Class of Chemistry in the absence of Dr. Clark, Professor of Chemistry, Mr. BRAZIER has shown very superior attainments in the sciences of Chemistry, Metallurgy, and Mineralogy. He has also shown that he possesses the talent of communicating knowledge with great clearness, and in a manner fitted to secure the attention, and interest the minds of his pupils.

In his moral conduct, he is exemplary ; his dispositions are mild and amiable ; and his manners and habits are those of a gentleman. As a man of science, he is deserving of all the countenance and support that can be given to him.

D. DEWAR, D.D.

## XXII.

*Supplementary Testimonial from the Reverend DANIEL DEWAR,  
D.D., late Principal of Marischal College and University.*

ABERDEEN, Nov. 12, 1860.

IN addition to my testimonial in favour of Mr. BRAZIER, of date 1st June, 1854, I have only to say that, from all I have seen and heard of his success as a Teacher of Chemistry, and from all my personal intercourse with him, I have the most entire conviction of his eminent scientific acquirements, and his qualifications to be a distinguished Professor of Chemistry. His attainments and talents, which he has

brought to bear so usefully on his successive large classes, fit him to be an ornament and an honour to any University. He is in every way and on every ground deserving of all the countenance and support that can be given to him.

D. DEWAR, D.D.

### XXIII.

*From JOHN CRUICKSHANK, L.L.D., late Professor of Mathematic<sup>s</sup>  
in Marischal College and University, Aberdeen.*

ABERDEEN, 14th December, 1860.

MR. JAMES S. BRAZIER has taught in Marischal College, for many years, the Chemical Classes, both theoretical and practical, and greatly to the satisfaction of all concerned—the Senatus, the Students, and the Public. He has shown the qualifications of an efficient teacher in every respect; and those who are qualified to judge ascribe to him high attainments in Chemical Science. I, therefore, consider that his appointment to the Professorship of Chemistry, in the case of a vacancy, would be very advantageous to the University of Aberdeen, and to the interests of Science.

JOHN CRUICKSHANK, L.L.D.

### XXIV.

*From FRANCIS OGSTON, M.D., Professor of Medical Logic and  
Medical Jurisprudence in the University of Aberdeen.*

I HAVE much pleasure in bearing my testimony to the acquirements of Mr. BRAZIER as a Chemist; to the efficiency with which, for several years, he conducted the class of Chemistry for Dr. Clark, in Marischal College; and to the satisfaction which his teaching of this important department of Science afforded both to his colleagues and to the Students under his charge; while I further have cheerfully to acknowledge the invaluable assistance which on various occasions I



have derived from his skill and experience, when engaged with him in the Medical Jurisprudence Laboratory, in the search for deliterious articles in cases of suspected poisoning.

FRANCIS OGSTON, M.D.

University of Aberdeen, December 11, 1860.

## XXV.

*From P. REDFERN, M.D. Lond., F.R.C.S.L., Professor of Anatomy and Physiology in Queen's College, Belfast, late Lecturer on Anatomy and Physiology in the University and King's College, Aberdeen.*

I HAVE been intimately acquainted with Mr. JAMES S. BRAZIER since he undertook the management of Dr. Clark's Systematic and Practical Classes of Chemistry in Marischal College, Aberdeen, eight years ago, and during this period I have had many opportunities of observing his method, ability, and perseverance in the conduction of Chemical Analyses of various kinds. Though my opinion, that Mr. BRAZIER possesses a very superior and ready knowledge of the subject to which he has devoted his life, has little weight when compared with that of the eminent Chemists from whom he will be able to present testimonials, I can state it confidently after many years of observation; and I am sure that Mr. BRAZIER will not be wanting in evidence that his knowledge of Chemistry fits him admirably for the duties of a Professor.

But there is a second point of equal importance with this, and that is Mr. BRAZIER's aptitude in teaching what he knows. I have repeatedly heard him read papers before the Philosophical Society of Aberdeen, and explain very difficult subjects, so that they could be easily understood by all present, although many had no previous knowledge of them. And students have often spoken to me of the admirable method followed by Mr. BRAZIER in his Practical Classes, and of the facility with which they acquired a knowledge of Chemical Analysis under his teaching. I am, therefore, convinced that Mr. BRAZIER is fully capable of imparting the knowledge which he possesses to others.

I have uniformly found Mr. BRAZIER most agreeable, obliging, and gentlemanly, and because of my conviction that he has a thorough knowledge of the Science which he professes, that he has shown himself to be an efficient and agreeable teacher, and that he possesses a general character which is very desirable in a Professor, I recommend him as highly qualified to fill the Chemical Chair of any University with efficiency and success.

P. REDFERN, M.D. Lond.

Belfast, December 24, 1860.

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XXVI.

*From WILLIAM HENDERSON, M.D., late Lecturer on Materia Medica in Marischal College and University.*

49, SCHOOLHILL, ABERDEEN, 10th Nov., 1860.

MY DEAR SIR,—It is with much pleasure that I comply with the request which you made the other day, that I would say what I know respecting your qualifications as a Teacher of Chemistry.

In the first place, I have thankfully to state that on more than one occasion I have received from you accurate and perspicuous information on different points of practical detail in Chemistry, with which I was not so familiar as I wished. And in the second place, I had the pleasure of attending, a few years ago, a course of Popular Lectures on Chemistry delivered by you, and was much interested by the clearness and methodical character of your statements, and the ingenuity of the experiments by which they were illustrated, as well as by the peculiarly lucid manner in which you explained the doctrines of Chemical transformations, by diagrams illustrative of the progressive changes which take place in the various Chemical operations, whether natural or artificial.

Heartily wishing you that success in your pursuits to which your talents and acquirements fully entitle you,

I remain,

Yours very sincerely,

WILLIAM HENDERSON, M.D.



## XXVII.

ADDRESS presented to JAMES S. BRAZIER, in 1855, by the  
STUDENTS attending the CHEMISTRY CLASS in connection  
with the SCHOOL OF SCIENCE AND ART in Aberdeen.

TO JAMES S. BRAZIER, Esquire,  
&c. &c.

THE following Address, by the Students attending the Chemistry Class in connection with the School of Science and Art in Aberdeen, Session 1854-55, is respectfully presented :—

SIR,—With much pleasure we have listened to the course of Lectures you have just ended, and highly appreciate your kindness throughout, in your obvious desire to meet the wishes and suit the convenience of all. The clearness with which you have shown the fundamental principles which run through the wide range of Chemistry—the beauty, success, completeness, and number of experiments by which those principles have been illustrated have commanded our admiration and carried conviction to the minds of each, and awakened in us a desire to know yet more of those laws by which the variety, extent, and beauty of all we see in nature seems a continued creation.

What we have derived from this course has served to show us how much has yet to be known, for we perceived that you laboured under a disadvantage from the brevity with which you had to discuss the various subjects treated ; and we gladly express our satisfaction with the skill by which you condensed and generalized so as to interest all ; as also with the amount of special information which you were enabled to convey, without which general conclusions are but partially useful. We would, therefore, express our anxious hope that Government, and the Council in this city, may see it their duty to continue these Lectures in future Sessions, and thus place within the reach of all what has hitherto been virtually denied to many—a complete course of Science. We cordially join in a wish that you may be long spared as successfully to expound those laws which the All Wise has

impressed on his works, and by which—with the sister science, Mechanics—the progress and intercourse of society are so much promoted, and the bounties of nature shared by all the world.

Signed in name, and by appointment of, the Students,  
at Aberdeen, this Tenth day of April, Eighteen  
Hundred and Fifty-five years.

ALEX. W. MARTIN.

W. MITCHELL.

J. SIMPSON KIDD.

### XXVIII.

*From the COMMITTEE OF THE ABERDEEN SCHOOL OF SCIENCE AND  
ART, in connection with the Council of Education, South  
Kensington, London.*

ABERDEEN. December 26th, 1860.

At a Meeting of the Committee of the Aberdeen School of Science and Art, held December 20th, it was unanimously agreed to express the high opinion the Members of the Committee have formed of Mr. BRAZIER's ability as a Teacher of Chemistry.

They had reason, in the Spring of 1855, to acquiesce in the spirit of the Address then presented to him by the Students attending the First Session of the School; and they have had ample opportunities since to note the respect paid to him by each succeeding Class—induced as well by his agreeable manner and accessibility, as by his ability as a Lecturer and Experimenter.

The Committee hesitate to express any opinion of their own as to his Chemical attainments, but feel that his success as a Teacher of Science is well evinced in the number of young men attending his Class, to whom, winter after winter, Medals and other Prizes have been awarded by the Department in London.

HENRY A. DEWAR, M.D.,

Convener of Committee.





